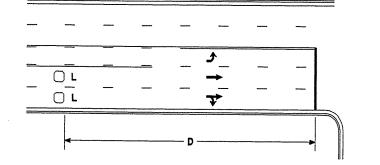


OR



L	=	6ft X 6ft (1.8m X 1.8m)
-		•
		Wired in series for TS1
		Controllers
		Wired separately for TS

170, and 2070L Controllers

Volume Density Operation

ft (m)

250 (75)

300 (90)

355 (110)

420 (130)

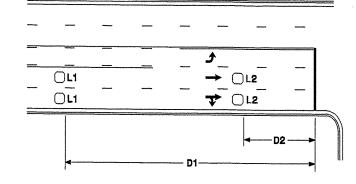
Speed Limit

mph (km/hr)

55 (88)

(72)

(80)



Spee	d Limit	D1		D2		
mph	(km/hr)	ft	(m)	ft	(m)	
40	(64)	250	(75)	80	(25)	
45	(72)	300	(90)	90	(27)	
50	(80)	355	(110)	100	(30)	
55	(88)	420	(130)	110	(35)	

"Stretch" Operation

Low Speed Detection [<35 mph (56 km/hr)]



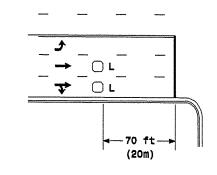
PROJECT REFERENCE NO.

7CR.10171.5, ETC.

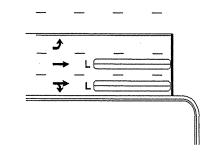
SHEET NO. TOTAL NO.

16

11

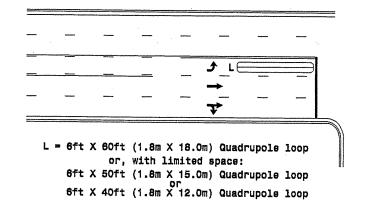


 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series

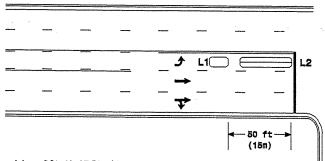


 $L = 6ft \times 60ft (1.8m \times 18.0m)$ Quadrupole loop, wired separately

Left Turn Lane Detection



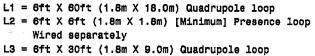
Presence Loop Detection



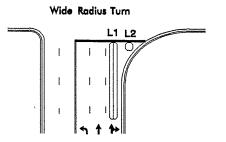
L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector L2 = 8ft X 40ft (1.8m X 12.0m) Quadrupole loop

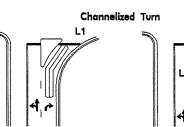
Queue Loop Detection

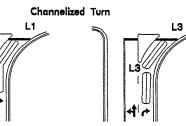
Right Turn Lane Detection Standard Turn



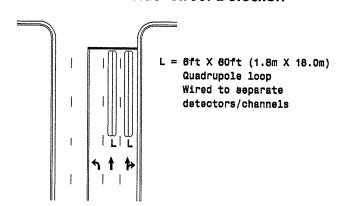
Wired in series



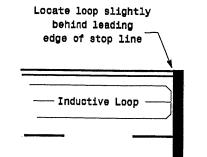




Side Street Detection



Presence Loop Placement at Stop Lines



Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permitted or exclusive/permitted left turn.

L1 = 6ft X 6ft

L2 = 6ft X 6ft

(1.8m X 1.8m)

(1.8m X 1.8m) Wired in series

Wired in series

Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

Length of Lead-in ft (m)	Number of Turns			
< 250 (75)	3			
250-375 (75-115)	4			
375-525 (115-160)	5			
> 525 (160)	6			

Quadrupole loops: Use 2-4-2 turns

Recommended Number of Turns

6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns



Typical Loop Locations

- W.5	ł					
0 N 18 19 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	PLAN DATE:	August 2001		REVIEWED BY:		
Geometrice Section	PREPARED BY:	P. L. A1	exander	REVIEWED BY:		
oll 3s., Rainigh, NC 27603	REVISIONS				INIT.	DATE
SCALE	Add gugug del	ector_loop.rel	erence to 20	TOL controllers	_ pla	8/02
None						